

## DECLARATION AND POWERS OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**BROADBAND ANTENNA AND PROCESSES FOR MANUFACTURING SUCH AN ANTENNA**

the specification of which was filed on July 21, 2003 as Application Serial No. PCT/EP03/50325 and was amended on January 28, 2005, or, if not identified here by filing date and serial number, is attached hereto.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate by me or my representatives or assigns for this invention having a filing date before that of the application on which priority is claimed.

Application No. 0209640 in FR on July 30, 2002 priority claimed ☒ Yes ☐ No

Application No. \_\_\_\_\_ in \_\_\_\_\_ on \_\_\_\_\_ priority claimed ☐ Yes ☐ No

Application No. \_\_\_\_\_ in \_\_\_\_\_ on \_\_\_\_\_ priority claimed ☐ Yes ☐ No

I hereby claim the benefit under 35 USC 119(e) of any United States provisional application(s) as listed below.

Application No. \_\_\_\_\_ Filed \_\_\_\_\_

Application No. \_\_\_\_\_ Filed \_\_\_\_\_

I hereby claim the benefit under 35 USC 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose material information as defined in 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application

Serial No. \_\_\_\_\_ Filed \_\_\_\_\_ ☐ patented ☐ pending ☐ abandoned

Serial No. \_\_\_\_\_ Filed \_\_\_\_\_ ☐ patented ☐ pending ☐ abandoned

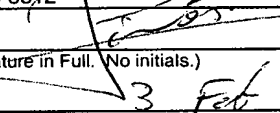
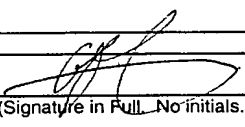
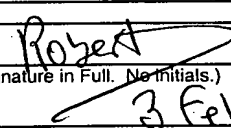
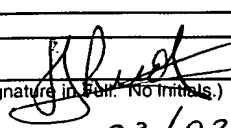
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

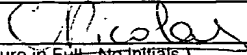
I hereby appoint, individually and collectively, the following as my/our attorney or agent with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith:

<u>Joseph S. Tripoli</u>	Registration No. <u>26,040</u>	and
<u>Joseph J. Laks</u>	Registration No. <u>27,914</u>	and
<u>Harvey D. Fried</u>	Registration No. <u>28,298</u>	and
<u>Ronald H. Kurdyla</u>	Registration No. <u>26,932</u>	and
<u>Robert D. Shedd</u>	Registration No. <u>36,269</u>	and
<u>Vincent E. Duffy</u>	Registration No. <u>39,964</u>	

PLEASE ADDRESS ALL  
COMMUNICATIONS TO:

JOSEPH S. TRIPOLI  
PATENT OPERATIONS  
THOMSON LICENSING INC.  
P. O. BOX 5312  
PRINCETON, NEW JERSEY 08543-5312

Sole or Joint Inventor (1)	<u>Jean-François PINTOS</u> (Type or Print)	(Signature in Full, No initials.) 
Citizenship	<u>FR</u>	Date <u>3 Feb 05</u>
Post Office Address	<u>16, Allée des Fresnes - F-35230 BOURGBARRE</u>	
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Sole or Joint Inventor (2)	<u>Olivier MOCQUARD</u> (Type or Print)	(Signature in Full, No initials.) 
Citizenship	<u>FR</u>	Date <u>3 Feb 05</u>
Post Office Address	<u>12, Rue Hoche - F-35000 RENNES</u>	
Residence	<u>FR</u>	
Sole or Joint Inventor (3)	<u>Jean-Luc ROBERT</u> (Type or Print)	(Signature in Full, No initials.) 
Citizenship	<u>FR</u>	Date <u>3 Feb 05</u>
Post Office Address	<u>2, Rue Paul Gauguin - F-35830 BETTON</u>	
Residence	<u>FR</u>	
Sole or Joint Inventor (4)	<u>Franck THUDOR</u> (Type or Print)	(Signature in Full, No initials.) 
Citizenship	<u>FR</u>	Date <u>03/02/05</u>
Post Office Address	<u>28, Rue François-Charles Oberthur - F-35000 RENNES</u>	
Residence	<u>FR</u>	

Sole or Joint Inventor (5)	Corinne NICOLAS	
	(Type or Print)	(Signature in Full. No Initials.)
Citizenship	FR	Date 3 feb 2005
Post Office Address	6, Allée Chêne aux Dames – F-35520 LA CHAPELLE DES FOUGERETZ	
Residence	FR	



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To the Honorable Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): <b>JEAN-FRANCOIS PINTOS; OLIVIER MOCQUARD; JEAN-LUC ROBERT; FRANCK THUDOR; CORINNE NICOLAS</b> Additional name(s) of conveying party(ies) attached: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Name and address of receiving party(ies): Name: <b>THOMSON Licensing S.A.</b> Internal Address:  Street: <b>46 Quai A. Le Gallo F-92100 Boulogne-Billancourt, France</b>	
3. Nature of convenience: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <b>February 3, 2005; respectively</b>		Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s): <b>US 10/523,182</b>  Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X		B. Patent No.(s)	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <b>JOSEPH J. LAKS</b> Internal Address: <b>PATENT OPERATIONS THOMSON LICENSING INC.</b>  Street Address: <b>P. O. Box 5312</b>  City: <b>PRINCETON</b> State: <b>NEW JERSEY</b> Zip: <b>08543-5312</b>		6. Total number of applications and patents involved: <u>1</u>  7. Total Fee (37 CFR 3.41): <b>\$40.00</b> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number: <b>07-0832</b>	

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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

**ROBERT D. SHEDD**  
Name of Person Signing

  
Signature - Reg. No. 36,269

**10/19/06**  
Date

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10/26/2006 GFREY1 00000124 070832 10523182

03 FC:8021 40.00 DA

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTER PATENT

WHEREAS, Jean-François PINTOS, 16, Allée des Fresnes, F-35230 BOURGBARRE, France, Olivier MOCQUARD, 12, Rue Hoche, F-35000 RENNES, France; Jean-Luc ROBERT, 2 Rue Paul Gauguin, F-35830 BETTON, France; Franck THUDOR, 28, Rue François-Charles Oberthur, F-35000 RENNES, France; Corinne NICOLAS, 6 Allée Chêne aux Dames, F-35520 LA CHAPELLE DES FOUGERETZ, FRANCE; hereinafter referred (collectively) to as the assignor, have invented a certain improvement relating to

**BRAODBAND ANTENNA AND PROCESSES FOR MANUFACTURING SUCH AN ANTENNA**

for which said assignor has caused an application for United States Letters Patent to be prepared,

- ( ) the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;
- (xx) said application having been filed in the United States Patent and Trademark Office on July 21, 2003 Serial Number PCT/EP03/50325 ;

AND WHEREAS

THOMSON LICENSING S.A.  
46 quai Alphonse Le Gallo  
F-92100 Boulogne Billancourt  
FRANCE

hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

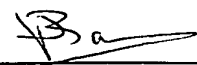
NOW THIS WITNESSETH, that for good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 3 day of Feb, 2005

WITNESSES:

Signature: 

Name: Baron François  
Address: 3, rue Marie de Kerstrat  
35235 Thougné - Fomillard

Signature: 

Name: Philippe GILBERON  
Address: 41, Avenue des Mallettes  
35135 CHATEAUPIE

EXECUTED, this 3 day of Feb, 2005

ASSIGNOR:

Signature: 

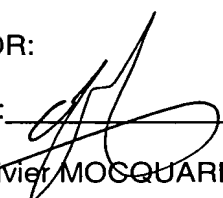
Name: Jean-François PINTOS

WITNESSES:

Signature: 

Name: JEANNE LUDOVIC  
Address: 11, Square de Sékoubé  
35200 RENNES

ASSIGNOR:

Signature: 


Name: Olivier MOSQUARD

Signature: 

Name: DENIS Bernard  
Address: La Fiolais  
35580 ST SELOUX

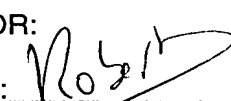
EXECUTED, this 3 day of Feb, 2005

WITNESSES:

Signature: 

Name: LE NAOUR Jean-Luc  
Address: 1, Rue des Badiers  
35740 PACÉ - FRANCE

ASSIGNOR:

Signature: 


Name: Jean-Luc ROBERT

Signature: 

Name: MINARD Philippe  
Address: La Tremblaye  
35250 St-Héland en Ile-FRANCE


EXECUTED, this 3 day of Feb, 2005

WITNESSES:

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Name: THOMAS Nathali  
Address: 1 rue du Blon  
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ASSIGNOR:

Signature: 

Name: Franck THUDOR

Signature: [Signature]

Name: PERROT  
Address: 37 rue LAFOND  
35700 RENNES

EXECUTED, this 3 day of Feb, 2005

WITNESSES:

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FRANCE

Signature: [Signature]

Name: GUGUEN Choline  
Address: 185 Bd F. Ad du G<sup>al</sup> Leclerc  
35700 RENNES

ASSIGNOR:

Signature: [Signature]

Name: Corinne NICOLAS

Serial No. 10/523,182  
CUSTOMER NO. 24498

FORM PTO-1595  
Rev. 08/2004



Docket No.: PF020098

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Additional name(s) of conveying party(ies) attached: Yes No <b>X</b>		Street Address: <b>46, Quai A. Le Gallo F-92100 Boulogne-Billancourt, France</b>	
3. Nature of conveyance: <b>X</b> Assignment Merger Security Agreement Change of Name Other		City: State: Zip:	
Execution Date: October 18, 2006		Additional name(s) & address(es) attached? Yes No <b>X</b>	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) <b>US 10/523,182</b>		B. Patent No.(s)	
Additional numbers attached? Yes No <b>X</b>			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <b>JOSEPH J. LAKS</b> Internal Address: <b>PATENT OPERATIONS Thomson Licensing Inc.</b>  Street Address: <b>P.O. Box 5312</b>  City: <b>PRINCETON</b> State: <b>NEW JERSEY</b> Zip: <b>08543-5312</b>		6. Total number of applications and patents involved: <u>1</u>	
		7. Total Fee (37 CFR 3.41): <b>\$40.00</b> Enclosed <b>X</b> Authorized to be charged to deposit account	
		8. Deposit account number: <b>07-0832</b>	

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

**ROBERT D. SHEDD**  
Name of Person Signing

  
Signature - Registration No. 36,269

10/19/06  
Date

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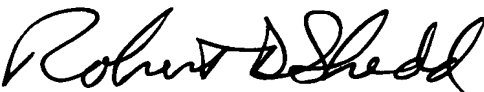
ASSIGNMENT

WHEREAS, **Thomson Licensing S.A.**, a corporation duly organized and existing under the laws of France, having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France and **THOMSON LICENSING**, a corporation organized and existing under the laws of France and having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France, entered into an agreement calling for the assignment of certain inventions, to **THOMSON LICENSING**;


NOW THEREFORE, **Thomson Licensing S.A.**, in consideration of the mutual covenants of said agreement, does hereby assign to **THOMSON LICENSING**, its successors and assigns, Thomson Licensing S.A.'s entire right, title and interest, for all countries and states, in and to, and including any right to claim priority of:

**US Application No. 10/523,182, filed January 28, 2005**  
**PCT Application No. PCT/EP03/50325, filed July 21, 2003**  
**Title: BROADBAND ANTENNA AND PROCESSES FOR**  
**MANUFACTURING SUCH AN ANTENNA**

**Thomson Licensing S.A.**

By:   
Robert D. Shedd  
Sr. Patent Counsel, Reg. No. 36,269  
Thomson Licensing Inc.  
And Attorney in Fact for  
Thomson Licensing S.A.

**THOMSON LICENSING**

By:   
Robert D. Shedd  
Sr. Patent Counsel, Reg. No. 36,269  
Thomson Licensing Inc.  
And Attorney in Fact for  
THOMSON LICENSING

**NOTARIAL CERTIFICATE**

State of New Jersey    )  
                                      ) :ss  
County of Middlesex    )

I do hereby certify that Thomson Licensing S.A., and THOMSON LICENSING, mentioned in the foregoing Assignment, both having offices at the addresses listed above, are corporations organized and existing under the laws of the country of France, and that **Robert D. Shedd**, who signed the foregoing Assignment this day, is/are fully authorized to execute the document on behalf of Thomson Licensing S.A. and THOMSON LICENSING respectively for this purpose.

Signed and sealed this 19 day of October 2006.

  
Notary Public

After this Assignment has been recorded please RETURN to:  
Patent Operations  
Thomson Licensing Inc.  
PO Box 5312  
Princeton, NJ 08543-5312

**DAVIDA P. FORNAROTTO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Exp. Jan. 28, 2007